

NOV 10 Pg 180-181; 4, 29-43 (a)

4) unit analysis 37) 2 km

29) miles

38)  $\approx 0.35$  mi/min

30) feet

39) 21 mi/hr

31) A

40) 0.5 mi/min

32) 5 dozens

41) 12 min

33) 24 months

42) 3,004 pesos

34) 24 weeks

35) 21.2 hrs.

43) \$91.00

36) 300 ft.

(about)

## 3.9 Percents

Oct. 31, 2006

Percent: is a ratio that  
compares some number to 100

$$\text{ie: } 55\% = .55 = \frac{55}{100}$$

ex1) What is 30% of 70 feet.

The Books way:  $30\% = .3$

$$a = (.3)(70) = 21 \text{ feet}$$

Part to Whole

$$\frac{\text{Part}}{\text{Whole}} = \frac{P}{W} \frac{\%}{100} = \frac{\text{Part of stuff}}{\text{whole stuff}}$$

"of" = diagonal | is = straight up  
across or down

$$\frac{P}{W} \frac{30}{100} = \frac{X}{70}$$

$$30 \cdot 70 = 100 \cdot X$$

$$X = 21 \text{ ft}$$

Cross Multiply  
+  
Divide

$$30 \cdot 70 = 100 \cdot X$$

$30 \cdot 70$	$2100$
Ans $\div 100$	21

$$X = 21 \text{ feet}$$

ex2) Fourteen Dollars is 25%  
of How much Money?  $x$  is

$$\frac{P}{W} = \frac{25}{100} = \frac{14}{x}$$

$$25 \cdot x = 100 \cdot 14$$

$$\underline{\underline{x = \$56}}$$

ex3) One Hundred Thirty-five  
is what percent of 27?

$$\frac{P}{W} = \frac{x}{100} = \frac{135}{27}$$

$$x \cdot 27 = 100 \cdot 135$$

$$\underline{\underline{x = 500\%}}$$

You are shopping for a portable CD Player. You find one at the regular price of \$90.00. The store is selling the CD Player at a sale price of \$72.00. What is the discount percent?

$$\frac{P}{W} = \frac{X}{100} = \frac{72}{90}$$

$$X \cdot 90 = 100 \cdot 72$$

$$X = 80\%$$

100 - 80 = 20  
 20% is what we got off the orig.

- ~~||~~ ~~||~~ ~~||~~ A: 80%
- ~~||~~ B: 15%
- || C: 20%
- || D: 120%

O.T.L.

① Pg 186-187;

17-33(o)

Hint:

find the whole  
table: 36-39(a)

180 + 7

$$180 + 7 + 39 + 12 = \underline{\hspace{2cm}}$$

Test Thursday